STN Structure Search 7.5.05

10/733,229

=> d ibib abs hitstr 1-19

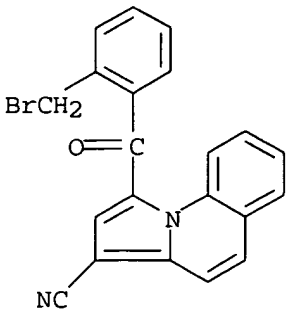
L4 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:534300 CAPLUS
DOCUMENT NUMBER: 141:65094
TITLE: Substituted 1-benzoyl-3-cyano-pyrrolo[1,2-a]quinolines and analogs as activators of caspases and inducers of apoptosis
INVENTOR(S): Cai, Sui Xiong; Drewe, John A.; Jiang, Sungchun; Kasibhatla, Shailaja; Kuemmerle, Jared Daniel; Sirisoma, Nilantha Sudath; Zhang, Han-Zhong
PATENT ASSIGNEE(S): Cytovia, Inc., USA
SOURCE: PCT Int. Appl., 106 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2004055163 | A2 | 20040701 | WO 2003-US39550 | 20031212 |
| WO 2004055163 | A3 | 20040826 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2005014759 | A1 | 20050120 | US 2003-733229 | 20031212 |
| PRIORITY APPLN. INFO.: | | | US 2002-432608P P | 20021212 |
| OTHER SOURCE(S): | | MARPAT 141:65094 | | |

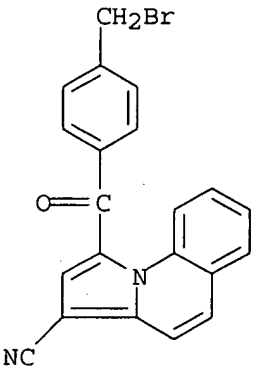
AB The invention discloses substituted 1-benzoyl-3-cyanopyrrolo[1,2-a]quinolines and analogs thereof. Compds. of the invention are activators of caspases and inducers of apoptosis. Therefore, the compds. of the invention can be used to induce cell death in a variety of clin. conditions in which uncontrolled growth and spread of abnormal cells occurs. Compound prepn is described.

IT **713076-48-3P 713076-50-7P 713076-51-8P**
**713076-53-0P 713076-68-7P 713076-69-8P**
**713076-72-3P 713076-74-5P 713076-76-7P**
**713076-95-0P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(benzoylcyanopyrroloquinolines and analogs as activators of caspases and inducers of apoptosis)

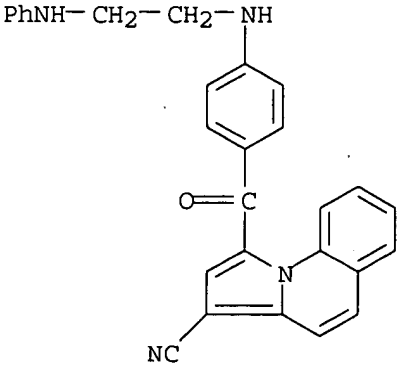
RN 713076-48-3 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-(3-methoxybenzoyl)- (9CI) (CA INDEX NAME)



RN 713077-34-0 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-[4-(bromomethyl)benzoyl]- (9CI) (CA INDEX NAME)

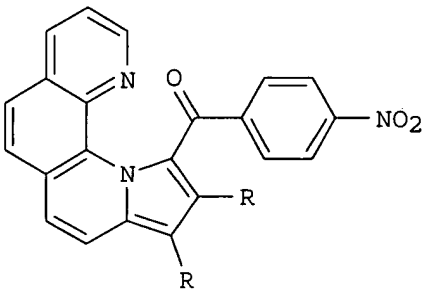


IT **713077-29-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(benzoylcyanopyrroloquinolines and analogs as activators of caspases and inducers of apoptosis)
RN 713077-29-3 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-[4-[[2-(phenylamino)ethyl]amino]benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:588111 CAPLUS

DOCUMENT NUMBER: 140:111296
TITLE: New pyrrolo[1,2-a][1,10]phenanthrolines with helical chirality
AUTHOR(S): Dumitrascu, Florea; Mitan, Carmen Irena; Draghici, Constantin; Caproiu, Miron Teodor
CORPORATE SOURCE: Institute of Organic Chemistry, Roumanian Academy, Bucharest, Rom.
SOURCE: Revue Roumaine de Chimie (2003), Volume Date 2002, 47(8-9), 881-884
CODEN: RRCHAX; ISSN: 0035-3930
PUBLISHER: Editura Academiei Romane
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:111296
GI



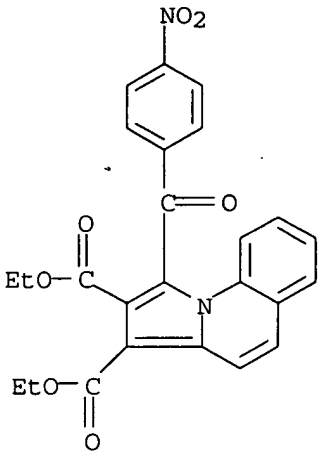
I

AB The [3 + 2]-dipolar cycloaddn. reaction of 1-(4-nitrophenacyl)-1,10-phenanthrolinium ylide with di-Me, di-Et, and diisopropyl acetylenedicarboxylates is a facile synthetic route to helical pyrrolo[1,2-a][1,10]phenanthrolines I (R = CO2Me, CO2Et, CO2i-Pr). The helical chirality of I (R = CO2Et, CO2i-Pr) was proved by 1H NMR spectroscopy.

IT **374679-46-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(regioselective preparation of di-Et nitrobenzoylpyrroloquinolinedicarboxylate via [3 + 2]-dipolar cycloaddn. of nitrophenacylquinolinium bromide with di-Et acetylenedicarboxylate followed by dehydrogenation)

RN 374679-46-6 CAPLUS

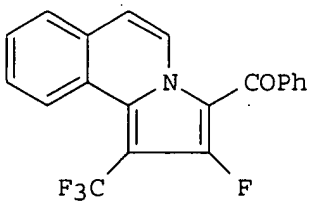
CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-(4-nitrobenzoyl)-, diethyl ester (9CI) (CA INDEX NAME)



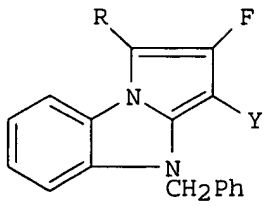
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:43839 CAPLUS
DOCUMENT NUMBER: 138:385258
TITLE: Synthesis of fluorinated indolizines and 4H-pyrrolo[1,2-a]benzimidazoles via 1,3-dipolar cycloaddition of fluoroalkenes to N-ylides
AUTHOR(S): Wu, Kai; Chen, Qing-Yun
CORPORATE SOURCE: Laboratory of Organofluorine Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China
SOURCE: Synthesis (2003), (1), 35-40
CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:385258
GI



I

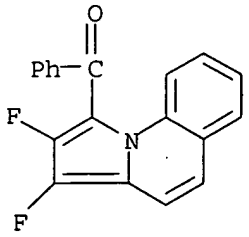


II

AB In the presence of K2CO3 and Et3N, pyridinium, quinolinium, isoquinolinium and benzimidazolinium N-ylides, generated in situ from their halides, react with gaseous fluoroalkenes CF2:CFX (X = Cl, Br, CF3) in DMF under atmospheric pressure in normal glassware at 70° to give fluorinated indolizines, e.g., I, or 4H-pyrrolo[1,2-a]benzimidazoles, e.g., II (R = COPh, COOEt, CN; Y = F, CF3), via 1,3-dipolar [3+2] cycloaddn. Similar results are obtained with tetrafluoroethene in an autoclave.

IT **528584-07-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(fluorinated indolizines and 4H-pyrrolo[1,2-a]benzimidazoles via 1,3-dipolar cycloaddn. of fluoroalkenes to N-ylides)

RN 528584-07-8 CAPLUS
CN Methanone, (2,3-difluoropyrrolo[1,2-a]quinolin-1-yl)phenyl- (9CI) (CA INDEX NAME)



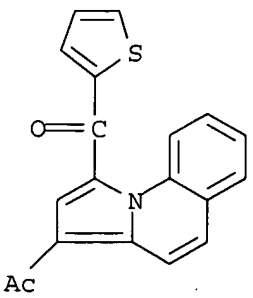
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:622701 CAPLUS
DOCUMENT NUMBER: 138:89650
TITLE: N-Bridgehead heterocyclic compounds thenoyl-substituted. I Indolizines and benzoindolizines
AUTHOR(S): Georgescu, Emilian I.; Georgescu, Florentina; Roibu, Constantin; Draghici, Constantin C.; Caproiu, Miron T.
CORPORATE SOURCE: S. C. Oltchim S. A. Research Center, Ramnicu Valcea, 1000, Rom.
SOURCE: Revue Roumaine de Chimie (2002), Volume Date 2001, 46(4), 357-362
CODEN: RRCHAX; ISSN: 0035-3930
PUBLISHER: Editura Academiei Romane
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:89650

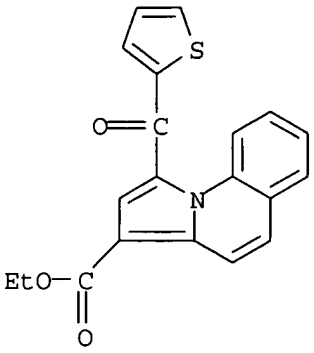
AB New thenoyl-substituted indolizine and benzoindolizine derivs. were obtained by the reactions of pyridines and benzopyridines with 2-bromoacetylthiophene followed by the reactions of the resulting quaternary salts with activated acetylenic compds. in the presence of an epoxide. This synthetic procedure was applied for the synthesis of some thenoyl-substituted indolizines, pyrrolo[1,2-a]quinolines and pyrrolo[2,1-a]isoquinolines, otherwise difficult to obtain.

IT **302913-60-6P 302913-61-7P 374679-53-5P 482579-37-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of thenoylindolizines and -benzoindolizines)

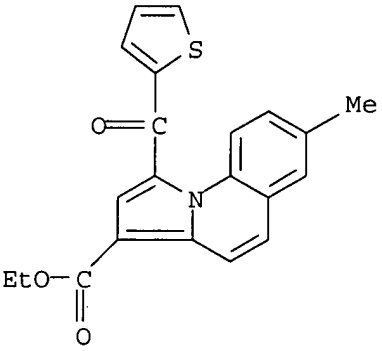
RN 302913-60-6 CAPLUS
CN Ethanone, 1-[1-(2-thienylcarbonyl)pyrrolo[1,2-a]quinolin-3-yl]- (9CI) (CA INDEX NAME)



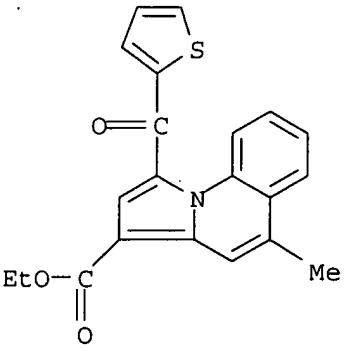
RN 302913-61-7 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 374679-53-5 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 7-methyl-1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



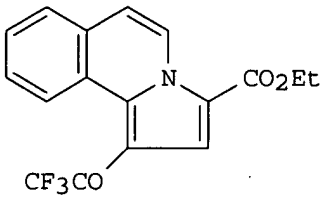
RN 482579-37-3 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 5-methyl-1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:801102 CAPLUS
DOCUMENT NUMBER: 132:122502
TITLE: Preparation of 1-(trifluoroacetyl)indolizines and their derivatives via cycloaddition of pyridinium N-ylides with 4-ethoxy-1,1,1-trifluorobut-3-en-2-one
AUTHOR(S): Zhu, Shi-zheng; Qin, Chao-yue; Wang, Yan-Li; Chu, Qian-li
CORPORATE SOURCE: Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China
SOURCE: Journal of Fluorine Chemistry (1999), 99(2), 183-187
CODEN: JFLCAR; ISSN: 0022-1139
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:122502
GI

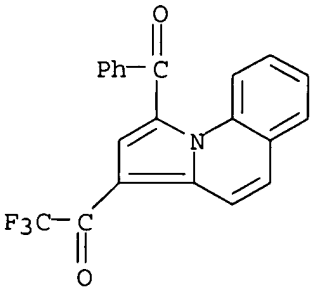



I

AB Under basic reaction conditions pyridinium or isoquinolinium N-ylides (C5H5N+CH2Y Br- or C9H7N+CH2Y Br-; Y = CO2Me, CO2Et, CN, PhCO) reacted readily with 4-ethoxy-1,1,1-trifluorobut-3-en-2-one to give 1-(trifluoroacetyl)indolizines or -pyrrolo[1,2-a]isoquinolines. The mol. structure of product I was determined

IT **256234-59-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(cycloaddn. of pyridinium or isoquinolinium N-ylides with ethoxytrifluorobutenone)

RN 256234-59-0 CAPLUS
CN Ethanone, 1-(1-benzoylpyrrolo[1,2-a]quinolin-3-yl)-2,2,2-trifluoro- (9CI) (CA INDEX NAME)




REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:281626 CAPLUS
DOCUMENT NUMBER: 130:337991
TITLE: Facile one-step synthesis of 1-acylindolizines by the

reaction of pyridinium salts with Mannich bases in the presence of TPCD

AUTHOR(S): Wang, Bing-Xiang; Hu, Jia-Xin; Hu, Yue-Fei; Hu, Hong-Wen

CORPORATE SOURCE: Dep. Chem., Nanjing Univ., Nanjing, 210093, Peop. Rep. China

SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1999), 20(3), 418-420
CODEN: KTHPDM; ISSN: 0251-0790

PUBLISHER: Gaodeng Jiaoyu Chubanshe

DOCUMENT TYPE: Journal

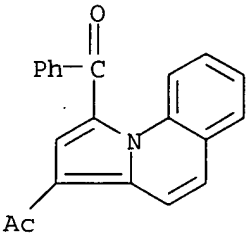
LANGUAGE: Chinese

AB A facile one-step method is presented for the synthesis of 1-acylindolizines in moderate yield by the reaction of pyridinium salts with Mannich bases in the presence of NaHCO3 and a mild oxidizing agent, tetrakispyridine cobalt dichromate (TPCD). For example, 1-acetyl-3-benzoylindolizine was prepared in 36% yield from phenacylpyridinium bromide and 4-dimethylamino-2-butanone hydrochloride.

IT **189024-24-6P 189024-25-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 1-acylindolizines by reaction of pyridinium salts with Mannich bases in presence of TPCD)

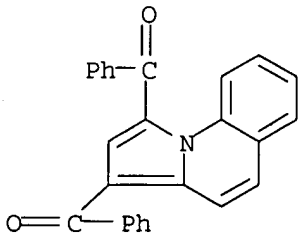
RN 189024-24-6 CAPLUS

CN Ethanone, 1-(1-benzoylpyrrolo[1,2-a]quinolin-3-yl)- (9CI) (CA INDEX NAME)



RN 189024-25-7 CAPLUS

CN Methanone, pyrrolo[1,2-a]quinoline-1,3-diylbis[phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:283544 CAPLUS

DOCUMENT NUMBER: 128:270501

TITLE: Synthesis of indolizines by 1,3-dipolar cycloaddition

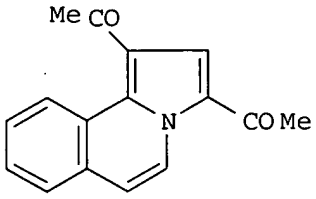
AUTHOR(S): Li, Jun; Li, Hongde; Yu, Yufei; Hu, Hongwen

CORPORATE SOURCE: Dep. Chem., Jinzhong Teachers Coll., Yuci, 030600, Peop. Rep. China

SOURCE: Hebei Daxue Xuebao, Ziran Kexueban (1998), 18(1), 31-34
CODEN: HDXKEB; ISSN: 1000-1565

PUBLISHER: Hebei Daxue

DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI

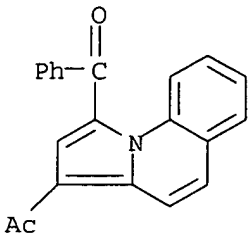



II

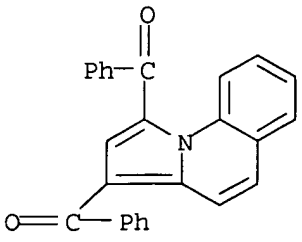
AB An efficient and convenient method in the preparation of indolizines by 1,3-dipolar cycloaddn. of quinolinium and isoquinolinium ylides with α,β-unsatd. ketones in the presence of tetrakis(pyridine)cobalt(II) bis(chromate)(I) was reported. E.g., reaction of 2-(2-oxopropyl)isoquinolinium bromide with Me vinyl ketone in DMF in the presence of NaHCO3 and I at 90° for 4-5 h gave 60% indolizine derivative II.

IT **189024-24-6P 189024-25-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of indolizines by 1,3-dipolar cycloaddn. of quinolinium and isoquinolinium ylides with α,β-unsatd. ketones)

RN 189024-24-6 CAPLUS
CN Ethanone, 1-(1-benzoylpyrrolo[1,2-a]quinolin-3-yl)- (9CI) (CA INDEX NAME)




RN 189024-25-7 CAPLUS
CN Methanone, pyrrolo[1,2-a]quinoline-1,3-diylbis[phenyl- (9CI) (CA INDEX NAME)




L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:246472 CAPLUS
DOCUMENT NUMBER: 126:293244
TITLE: A convenient synthesis of 1-acylindolizines by 1,3-dipolar cycloaddition reactions of pyridinium ylides and α,β-unsaturated aldehydes or

ketones in the presence of tetrapyridinecobalt dichromate

AUTHOR(S): Zhang, Xuechun; Cao, Weili; Wei, Xudong; Hu, Hongwen

CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China

SOURCE: Synthetic Communications (1997), 27(8), 1395-1403
CODEN: SYNCAV; ISSN: 0039-7911

PUBLISHER: Dekker

DOCUMENT TYPE: Journal

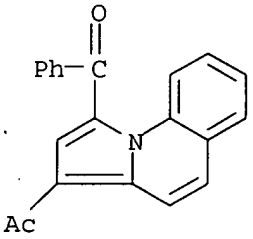
LANGUAGE: English

AB In the presence of tetrapyridinecobalt dichromate ($CoPy_4(HCrO_4)_2$), pyridinium ylides and α,β-unsatd. aldehydes or ketones undergo 1,3-dipolar cycloaddn. reactions followed by in situ aromatization to give 1-acyl substituted indolizines in moderate to good yields.

IT **189024-24-6P 189024-25-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

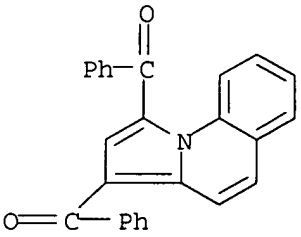
RN 189024-24-6 CAPLUS

CN Ethanone, 1-(1-benzoylpyrrolo[1,2-a]quinolin-3-yl)- (9CI) (CA INDEX NAME)



RN 189024-25-7 CAPLUS

CN Methanone, pyrrolo[1,2-a]quinoline-1,3-diylbis[phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:655585 CAPLUS

DOCUMENT NUMBER: 121:255585

TITLE: A facile synthesis of indolizines by 1,3-dipolar cycloaddition of pyridinium and related heteroaromatic ylides with alkenes in the presence of TPCD, $Py_4Co(HCrO_4)_2$

AUTHOR(S): Zhu, Chang-cheng; Wei, Xu-dong; Hu, Jia-xin; Wang, De-fen; Hu, Hong-wen

CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210008, Peop. Rep. China

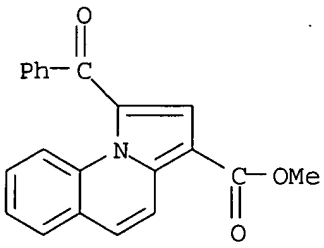
SOURCE: Chemical Research in Chinese Universities (1994), 10(2), 93-101

CODEN: CRCUED; ISSN: 1005-9040
DOCUMENT TYPE: Journal
LANGUAGE: English

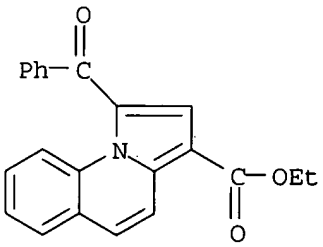
AB A facile one-step method is presented for the synthesis of indolizines in moderate to high yields by reaction of pyridinium, quinolinium and isoquinolinium ylides with acrylonitrile, Me acrylate and di-Et maleate resp. in the presence of tetrakis(pyridino)cobalt(II) dichromate (TPCD) in DMF.

IT **158670-26-9P 158670-27-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

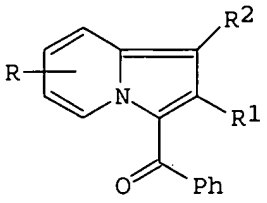
RN 158670-26-9 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-benzoyl-, methyl ester (9CI) (CA INDEX NAME)



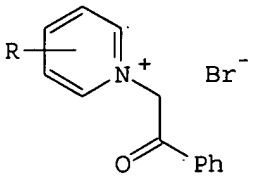
RN 158670-27-0 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:270005 CAPLUS
DOCUMENT NUMBER: 120:270005
TITLE: A facile one-step synthesis of aromatic indolizines by 1,3-dipolar cycloaddition of pyridinium and related heteroaromatic ylides with alkenes in the presence of TPCD [Copy4(HCrO4)2]
AUTHOR(S): Wei, Xudong; Hu, Yuefei; Li, Tingsheng; Hu, Hongwen
CORPORATE SOURCE: Dep. Chem., Nanjing Univ., Nanjing, 210008, Peop. Rep. China
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1993), (20), 2487-9
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 120:270005
GI




I



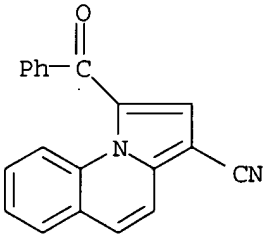

II

AB A facile and general one-step method is presented for the preparation of aromatic indolizine compds. I (R-R2 = alkyl, etc.) in moderate to high yields (53-99%) by reaction of the pyridinium N-ylides II (R = alkyl), quinolinium ylide or isoquinolinium ylide with various olefinic dipolarophiles, such as acrylonitrile, Me acrylate, acrylamide, di-Et maleate and Me crotonate, resp., in the presence of a new oxidant TPCD [Copy4(HCrO4)2, tetrapyridinecobalt(II) dichromate] at 90 °C for 2 h in DMF.

IT **25627-85-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation from pyridinium ylide and alkene)

RN 25627-85-4 CAPLUS

CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl- (8CI, 9CI) (CA INDEX NAME)




L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:591612 CAPLUS

DOCUMENT NUMBER: 101:191612

TITLE: Use of dipolar species under phase-transfer catalysis. Part 1. 1,3-Dipolar cycloaddition in a two-phase system

AUTHOR(S): Alvarez-Builla, Julio; Quintanilla, M. Gloria; Abril, Catalina; Gandasegui, M. Teresa

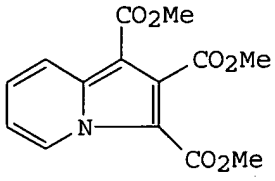
CORPORATE SOURCE: Dep. Quim. Org., Univ. Alcala de Henares, Madrid, Spain

SOURCE: Journal of Chemical Research, Synopses (1984), (6), 202-3
CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



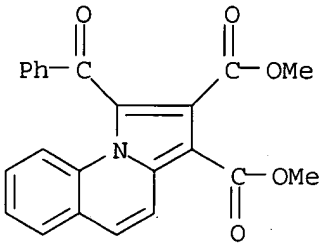

I

AB Eleven indolizines were prepared in 18-82% yield by 1,3-dipolar cycloaddn. of pyridinium ylides with RC.tplbond.CCO2Me (R = MeO2C, Ph) in a 2-phase system. Addition of MeO2CC.tplbond.CCO2Me to N-(methoxycarbonylmethyl)pyridinium chloride and KOH, supported on alumina (1:1) suspended in MeCN, at room temperature for >18 h, followed by dehydrogenation with 5% Pd-C at reflux for 4 h gave 44% indolizine I. Phase-transfer catalysts did not significantly improve the yields.

IT **17281-87-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by cycloaddn. reaction of pyridinium ylide with acetylenic ester, in two-phase system)

RN 17281-87-7 CAPLUS

CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-benzoyl-, dimethyl ester (8CI, 9CI) (CA INDEX NAME)




L4 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:143253 CAPLUS

DOCUMENT NUMBER: 98:143253

TITLE: Studies on 1,3-dipolar cycloaddition reactions of some cycloimmonium ylides

AUTHOR(S): Tewari, Ram S.; Dixit, Priya D.; Dubey, Ajay K.

CORPORATE SOURCE: Dep. Chem., H. B. Technol. Inst., Kanpur, 208 002, India

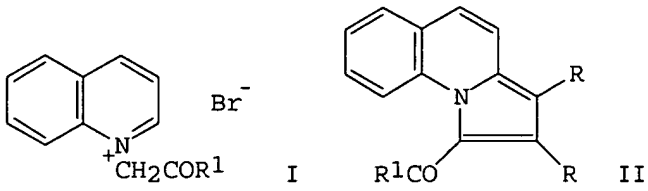
SOURCE: Journal of Chemical and Engineering Data (1983), 28(2), 283-5
CODEN: JCEAAX; ISSN: 0021-9568

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 98:143253

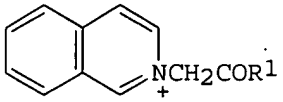
GI



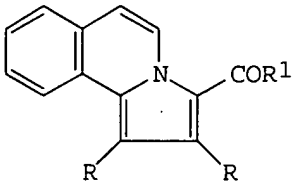
I



II



III



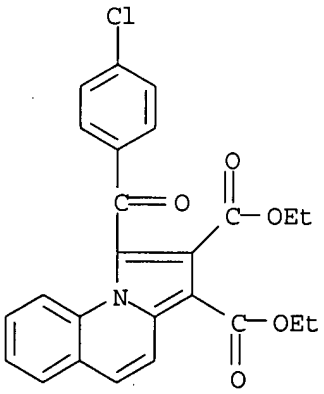
IV

AB Benzindolizines were prepared by cycloaddn. of quinolinium and isoquinolinium ylides with acetylenic dipolarophiles. Treating phenacylquinolinium bromides I (R1 = 4-ClC6H4, 2-naphthyl) and RC.tplbond.CR (R = CO2Me, CO2Et) in C6H6 with NEt3 in C6H6, then refluxing 4-6 h gave 50-60% benzindolizines II. Similarly, phenacylisoquinolinium bromides III [R1 = 4-R2C6H4 (R2 = Cl, Me, NO2), naphthyl] and RC.tplbond.CR gave 50-60% benzindolizines IV.

IT **84801-86-5P 84801-87-6P 84801-88-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

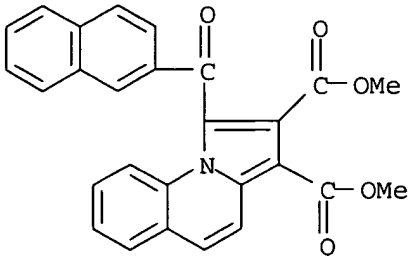
RN 84801-86-5 CAPLUS

CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-(4-chlorobenzoyl)-, diethyl ester (9CI) (CA INDEX NAME)

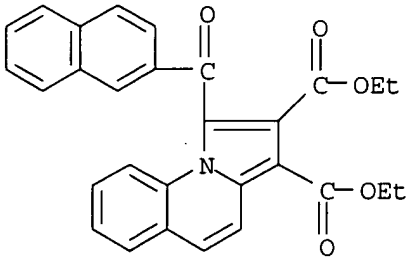


RN 84801-87-6 CAPLUS

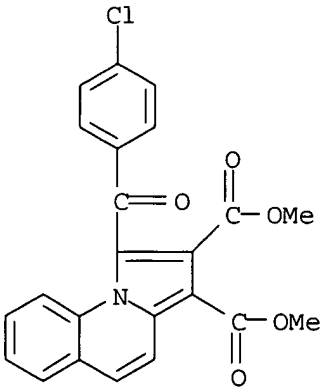
CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-(2-naphthalenylcarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)



RN 84801-88-7 CAPLUS
CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-(2-naphthalenylcarbonyl)-, diethyl ester (9CI) (CA INDEX NAME)



IT **84801-85-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by cycloaddn. of cycloimmonium ylide with acetylenedicarboxylate)
RN 84801-85-4 CAPLUS
CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-(4-chlorobenzoyl)-, dimethyl ester (9CI) (CA INDEX NAME)



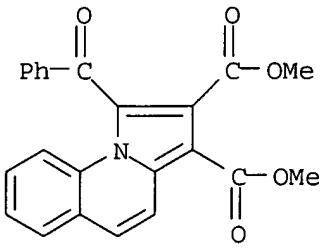
L4 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:35035 CAPLUS
DOCUMENT NUMBER: 96:35035
TITLE: Studies on 1,3-dipolar cycloaddition reactions of some cycloimmonium ylides
AUTHOR(S): Tewari, Ram S.; Dubey, Ajay K.; Misra, Naresh K.
CORPORATE SOURCE: Dep. Chem., H. B. Technol. Inst., Kanpur, 208002, India

SOURCE: Journal of Chemical and Engineering Data (1982), 27(1), 101-3
CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE: Journal
LANGUAGE: English

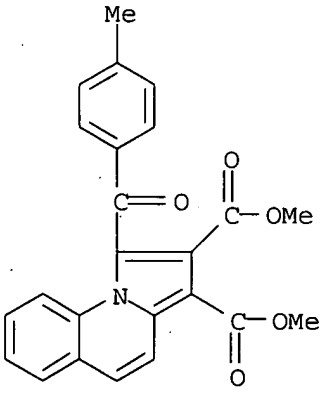
AB 1,3-Dipolar cycloaddn. reactions of zwitterionic quinolinium and isoquinolinium ylides, generated in situ from their resp. precursors, with acetylenic dipolarophiles yield benzoindolizine derivs. The reaction proceeds via the intermediacy of nonarom. primary adducts, which on dehydrogenation afford aromatized benzoindolizines.

IT **17281-87-7P 80242-13-3P 80242-14-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

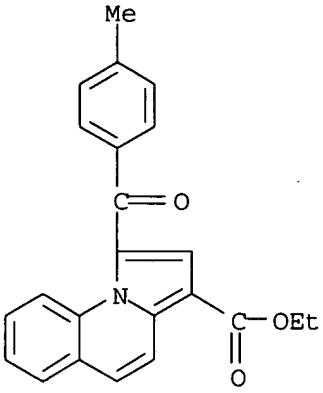
RN 17281-87-7 CAPLUS
CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-benzoyl-, dimethyl ester (8CI, 9CI) (CA INDEX NAME)



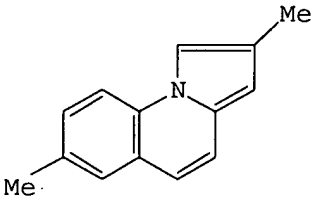
RN 80242-13-3 CAPLUS
CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-(4-methylbenzoyl)-, dimethyl ester (9CI) (CA INDEX NAME)



RN 80242-14-4 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-(4-methylbenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



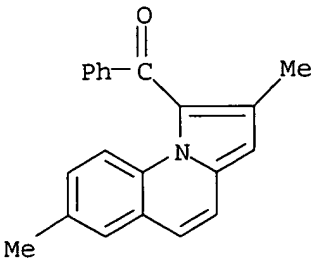
L4 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1979:456793 CAPLUS
DOCUMENT NUMBER: 91:56793
TITLE: Studies on heterocyclic compounds. Part 49. Synthesis and reaction of 2,7-dimethylpyrrolo[1,2-a]quinoline with electrophilic reagents
AUTHOR(S): Kuo, Hsien-Saw; Yoshina, Shigetaka; Tung, Yih-Chih
CORPORATE SOURCE: Fac. Pharm., Meijo Univ., Nagoya, Japan
SOURCE: Journal of Heterocyclic Chemistry (1979), 16(2), 393-5
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 91:56793
GI



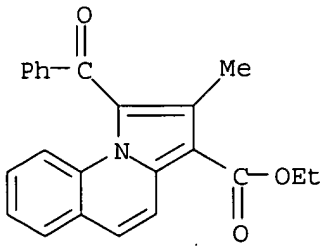
I

AB 2,7-Dimethylpyrrolo[1,2-a]quinoline (I) was prepared from 2,9-dimethylquinoline and BrCH2COMe via a Tschitschibabin reaction. The electrophilic substitution reactions of I, namely nitrosation, acylation, diazonium coupling, formylation, bromination, and nitration, were studied.

IT **70121-01-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 70121-01-6 CAPLUS
CN Methanone, (2,7-dimethylpyrrolo[1,2-a]quinolin-1-yl)phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:120721 CAPLUS
DOCUMENT NUMBER: 80:120721
TITLE: Pyrrolo[1,2-a]quinolines. Reinvestigation
AUTHOR(S): Irwin, W. J.; Wibberley, D. G.
CORPORATE SOURCE: Dep. Pharm., Univ. Aston, Birmingham, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1974), (2), 250-2
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Et 2-quinolylacetate (I; R = H, R1 = CO2Et) with PhCOCH2Br gave, after treatment with HCl and NaOH, I (R = CO2Et, R1 = CH2COPh) which with Ac2O gave 26% pyrroloquinoline (II; R = Me, R1 = PhCO) and 20% II (R = Ph, R1 = H).
IT **13526-93-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(structure vs. 2-benzoyl-3-(ethoxycarbonyl)-1-methylpyrrolo[1,2-a]quinoline, from reaction of Et quinolylacetate with phenacyl bromide)
RN 13526-93-7 CAPLUS
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-benzoyl-2-methyl-, ethyl ester (8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1971:435631 CAPLUS
DOCUMENT NUMBER: 75:35631
TITLE: Indolizines from phenacylcyclimonium salts
AUTHOR(S): Froehlich, Juerg; Kroehnke, Fritz
CORPORATE SOURCE: Inst. Org. Chem., Univ. Giessen, Giessen, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1971), 104(5), 1621-8
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German

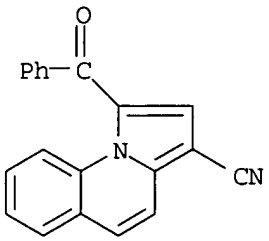
GI For diagram(s), see printed CA Issue.

AB Dipolar 1,3-addition of H2C:CHCN to N-ylides, generated in situ by bases from N-phenacylcyclimmonium salts (I), e.g. N-phenacylpyridinium bromide gave tetrahydroindolizines (II), e.g. 3-benzoyl-1-cyano-1,2,3,8a-tetrahydroindolizine. II were dehydrogenated to dihydroindolizines (III), e.g. 3-benzoyl-1-cyano-2,3-dihydroindolizine and indolizines (IV), e.g. 3-benzoyl-1-cyanoindolizine.

IT **25627-85-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 25627-85-4 CAPLUS

CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl- (8CI, 9CI) (CA INDEX NAME)




L4 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1970:78938 CAPLUS

DOCUMENT NUMBER: 72:78938

TITLE: Chemistry of cyanoacetylenes. V. 1,3-Dipolar cycloaddition reactions of cyanoacetylenes with N-ylides and N-imines

AUTHOR(S): Sasaki, Tadashi; Kanematsu, Ken; Yukimoto, Yusuke

CORPORATE SOURCE: Fac. Eng., Nagoya Univ., Nagoya, Japan

SOURCE: Journal of the Chemical Society [Section] C: Organic (1970), (3), 481-5
CODEN: JSOOAX; ISSN: 0022-4952

DOCUMENT TYPE: Journal

LANGUAGE: English

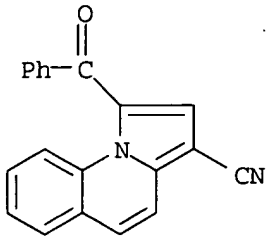
OTHER SOURCE(S): CASREACT 72:78938

AB 1,3-Dipolar cycloaddn. reactions of zwitterionic pyridinium, quinolinium, and isoquinolinium phenacylides with cyanoacetylene or chlorocyanoacetylene gave 1-cyanoindolizine derivs. Similar reactions of N-aminopyridinium and isoquinolinium salts gave 3-cyanopyrazol[1,5-a]pyridine derivs. A 3-methylpyridinium ylide reacted with the same dipolarophiles at the 2-position, in spite of hindrance by the Me group. Reactions of cyclopentadiene ylides with cyanoacetylenes gave trans-2-(2-cyanovinyl)cyclopentadiene ylides.

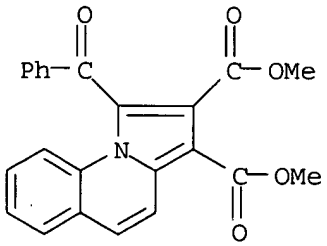
IT **25627-85-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 25627-85-4 CAPLUS

CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl- (8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1968:49411 CAPLUS
DOCUMENT NUMBER: 68:49411
TITLE: Pyridinium ylides in synthesis. III. Synthesis of indolizines
AUTHOR(S): Henrick, C. A.; Ritchie, E.; Taylor, Walter Charles
CORPORATE SOURCE: Univ. Sydney, Sydney, Australia
SOURCE: Australian Journal of Chemistry (1967), 20(11), 2467-77
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Treatment of pyridinium, quinolinium, and isoquinolinium ylides with acetylenes yields indolizine, such as I, derivs. Pyridinium phenacylide with iodine in dimethylacetamide gives 1,2,3-tribenzoylindolizine. Decomposition of pyridinium phenacylide in the presence of copper or copper oxide affords 1,3-dibenzoylindolizine. 20 references.
IT **17281-87-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17281-87-7 CAPLUS
CN Pyrrolo[1,2-a]quinoline-2,3-dicarboxylic acid, 1-benzoyl-, dimethyl ester (8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1967:37869 CAPLUS
DOCUMENT NUMBER: 66:37869
TITLE: A new synthesis of indolizines and related nitrogen-bridgehead compounds
AUTHOR(S): Melton, Timothy; Taylor, J.; Wibberley, Denman G.
CORPORATE SOURCE: Tech. Coll., Sunderland, UK
SOURCE: Chemical Communications (London) (1965), (8), 151-2
CODEN: CCOMA8; ISSN: 0009-241X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.

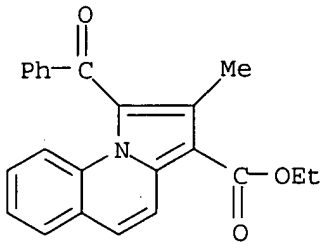
10/733,229

AB A route to indolizines involving closure at the 2-3-position by an intramol. aldol-type condensation is given. Thus, 2-(benzoylmethylene)-1-benzyl-1,2-dihydropyridine I (R = H) yielded 1-acetyl-2,3-diphenylindolizine II R = R1 = Ph), on treatment with boiling Ac2O. Similarly prepared were 2-acetoxy-1-acety-3-phenylindolizine II (R = OAc, R1 = Ph), 1-benzoyl-2-methyl-3-carbethoxypyrrolo[1,2-a]quinoline III (R = Me, R1 = Bz, R2 = CO2Et) and 3-acetyl-1,2-diphenylpyrrolo[1,2-a]quinoline III (R = R1 = Ph, R2 = Ac). By the same method I (R = Ph) yielded the pyrrolopyridine (V)

IT **13526-93-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 13526-93-7 CAPLUS

CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-benzoyl-2-methyl-, ethyl ester (8CI, 9CI) (CA INDEX NAME)




=> d his

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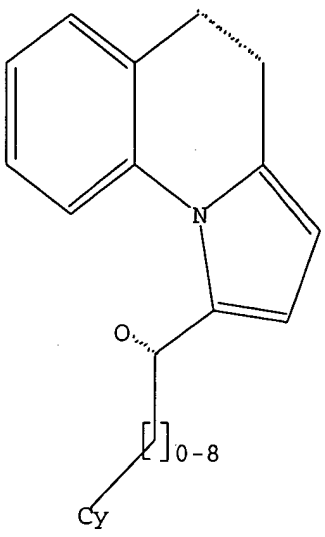
FILE 'REGISTRY' ENTERED AT 12:01:21 ON 05 JUL 2005
L1 STRUCTURE UPLOADED
L2 7 S L1
L3 145 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:01:55 ON 05 JUL 2005
L4 19 S L3

=> d l1
L1 HAS NO ANSWERS
L1 STR




Structure attributes must be viewed using STN Express query preparation.

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